

ojj.c X

```
#include<stdio.h>
```

```
void main(){
```

```
    int n;
```

```
    printf("enter an integer:\n");
```

```
    scanf("%d",&n);
```

```
    int num = 1;
```

```
    for (int i = 0; i < n; i++)
```

```
    {
```

```
        for (int j = 0; j <= i; j++)
```

```
        {
```

```
            printf("%d\t",num);
```

```
            ++num;
```

```
        }
```

```
        printf("\n");
```

```
    }
```

```
}
```

```
printf("%d", i);  
printf("\n");  
}
```

```
}
```

```
}
```

```
}
```

```
6) #include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
#define pi 3.14
```

```
int main() {
```

```
int choice, r, h;
```

```
float area, volume;
```

```
printf("Enter shape you want\n");
```

```
while (choice != 4)
```

```
{
```

```
printf("\n menu\n 1: cylinder\n 2: cone\n 3: sphere\n 4: Exit\n");
```

```
scanf("%d", &choice);
```

```
switch (choice)
```

```
{
```

```
case 1: printf("Enter radius: \n");
```

```
scanf("%d", &r);
```

```
printf("Enter height: \n");
```

```
scanf("%d", &h);
```

```
area = (2 * pi * r * h) + (2 * pi * pow(r, 2));
```

```
volume = pi * pow(r, 2) * h;
```

```
printf("Area: %f\n volume: %f", area, volume);
```

```
break;
```

```

printf ("Enter height: \n");
scanf ("%d", &h);
area = pi * x * (x + sqrt(pow(u, 2) + pow(x, 2))) ;
volume = pi * pow(x, 2) * h / 3.0;
printf ("Area: %f \n volume: %f", area, volume);
break;

```

case 3: printf ("Enter radius: \n");

```
scanf ("%d", &r);
```

```
area = 4 * pi * pow(x, 2);
```

```
volume = (u / 3.0) * (pi * pow(x, 3));
```

```
printf ("Area: %f \n volume: %f", area,
```

```

do
{
printf("\nmenu\n 1:Cylinder\n 2:Cone\n 3:Sphere\n 4:Exit\n");
scanf("%d",&choice);
switch(choice)
{
case 1 : printf("Enter radius:\n");
scanf("%d",&r);
printf("Enter height:\n");
scanf("%d",&h);
area=(2*pi*r*h)+(2*pi*pow(r,2));
volume=pi*pow(r,2)*h;
printf("Area:%f \t\t Volume:%f",area,volume);
break;
case 2 : printf("Enter radius:\n");
scanf("%d",&r);
printf("Enter height:\n");
scanf("%d",&h);
area=pi*r*(r+sqrt(pow(h,2)+pow(r,2)));
volume=pi*pow(r,2)*h/3.0;
printf("Area:%f \t\t Volume:%f",area,volume);
break;
case 3 : printf("Enter radius:\n");
scanf("%d",&r);
area=4*pi*pow(r,2);
volume=(4/3.0)*(pi*pow(r,3));
printf("Area:%f \t\t Volume:%f",area,volume);
break;
case 4 : printf("Exit\n");
break;
default : printf("Enter a no. ranging from 1 to 4");
}
}while(choice!=4);
return 0;

```

```
int a, b, num1, num2, i, j;  
printf("Enter two nos : \n");  
scanf("%d%d", &num1, &num2);  
if (num1 > num2) {  
    a = num2;  
    b = num1;  
}  
else {  
    a = num1;  
    b = num2;  
}  
if (b < 2) {
```



```

#include<stdio.h>
void main(){
    int a, b, num1, num2, i, j;
    printf("Enter two nos:\n");
    scanf("%d%d",&num1,&num2);
    if(num1>num2){
        a = num2;
        b = num1;
    }
    else{
        a = num1;
        b = num2;
    }
    if(b < 2){
        printf("there are no prime nos in this range.\n");
        exit(0);
    }
    printf("prime nos in the range are:\n");
    for (i = a; i <= b; i++){
        int flag = 0;
        for(j = 2; j <= i/2; j++){
            if (i % j == 0){
                flag = 1;
                break;
            }
        }
        if (flag == 0 && i != 1 && i != 0){
            printf("%d",i);
            printf("\n");
        }
    }
}

```

```

}
for (k=0; k<SUB; k++)
{
    total marks[k] = (ie marks[k] + seen marks[k]);
    printf("for subject- %d grade is : \n", k+1);
    if (total marks[k] >= 40) {
        printf("S\n");
    }
}

```

Week 2

3) #include <stdio.h>

void main()

{ int n, i, j;

printf("Enter no. of rows: ");

scanf("%d", &n);

~~for~~ int num = 1;

for (i = 0; i <= n; i++)

{ for (j = 0; j <= i; j++)

{ printf("%d\t", num);

++ num;

}

printf("\n");

}

}

4) #include <stdio.h>

#define SUB 6

void main()

{ float ciemark[SUB], seemark[SUB], cie, see, ^{totmark} [SUB];

int i, k;

printf("Enter cie marks out of 50: \n");

for (i = 0; i < SUB; i++)

{ printf("sub %d: ", i+1);

scanf("%f", &cie);

if (cie ~~>~~ 50)

{ printf("enter marks for 50 \n");

i--;

}

ciemark[i] = round(cie);

}

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Enter cie marks out of 50:

sub1:48

sub2:42

sub3:43

sub4:41

sub5:40

sub6:38

Enter see marks out of 100:

sub1:90

sub2:86

sub3:70

sub4:98

sub5:91

sub6:90

for subject 1 grade is:

S

for subject 2 grade is:

A

for subject 3 grade is:

B

for subject 4 grade is:

S

for subject 5 grade is:

A

for subject 6 grade is:

A

Process returned 0 (0x0) execution time : 20.768 s

Press any key to continue.


```
scanf("%f", &see);
if (see > 100) {
    printf("enter marks for 100\n");
    i -= 1;
}
else {
    seeMark[j] = round(see/2);
}
}
for (k = 0; k < SUB; k++) {
    totMark[k] = cieMark[k] + seeMark[k];
    printf("for subject %d grade is:\n", k+1);
    if (totMark[k] >= 90) {
        printf("S\n");
    }
    else if (totMark[k] >= 80) {
        printf("A\n");
    }
    else if (totMark[k] >= 70) {
        printf("B\n");
    }
    else if (totMark[k] >= 60) {
        printf("C\n");
    }
    else if (totMark[k] >= 50) {
        printf("D\n");
    }
    else if (totMark[k] >= 40) {
        printf("E\n");
    }
    else {
        printf("F\n");
    }
}
```

```

#include<stdio.h>
#define SUB 6
void main(){
    float cieMark[SUB], seeMark[SUB], cie, see, totMark[SUB];
    int i,j,k;
    printf("Enter cie marks out of 50:\n");
    for ( i = 0; i<SUB; i++){
        printf("sub%d:",i+1);
        scanf("%f",&cie);
        if (cie > 50){
            printf("enter marks for 50\n");
            i-=1;
        }
        cieMark[i] = round(cie);
    }
    printf("Enter see marks out of 100:\n");
    for( j = 0; j< SUB; j++){
        printf("sub%d:", j + 1);
        scanf("%f", &see);
        if (see > 100){
            printf("enter marks for 100\n");
            i -= 1;
        }
        else {
            seeMark[j] = round(see/2);
        }
    }
    for (k = 0; k < SUB; k++){
        totMark[k] = cieMark[k] + seeMark[k];
        printf("for subject %d grade is:\n",k+1);
        if(totMark[k] >= 90){
            printf("S\n");
        }
        else if (totMark[k] >= 80){
            printf("A\n");
        }
        else if(totMark[k] >= 70){
            printf("B\n");
        }
    }
}

```

```

int i, j, k;
printf("Enter cie marks out of 50:\n");
for ( i = 0; i<SUB; i++){
    printf("sub%d:", i+1);
    scanf("%f", &cie);
    if (cie > 50){
        printf("enter marks for 50\n");
        i-=1;
    }
    cieMark[i] = round(cie);
}
printf("Enter see marks out of 100:\n");
for( j = 0; j< SUB; j++){
    printf("sub%d:", j + 1);
    scanf("%f", &see);
    if (see > 100){
        printf("enter marks for 100\n");
        j -= 1;
    }
    else {
        seeMark[j] = round(see/2);
    }
}
for (k = 0; k < SUB; k++){
    totMark[k] = cieMark[k] + seeMark[k];
    printf("for subject %d grade is:\n", k+1);
}

```


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enter an integer:

0					
1					
2	3				
3	5	6			
4	8	9	10		
5	12	13	14	15	
6	17	18	19	20	21

Process returned 6 (0x6) execution time : 2.414 s

Press any key to continue.